

The Activation of OB2 Segmented HWO/SPS WWA Products

(Version date 12/09/03)

[Please Print on a Color Printer]

***Includes corrected template to allow the creation of segmented SPS's for following up Tornado and Severe Thunderstorm Watches**

***Includes updated instructions for using the old WWA setup GUI rather than the new WWA Admin GUI.**

If sites have used the WWA Admin GUI to setup the HWO templates or to set the segmented flag, when they go to transmit the HWO product they will get the following error:

“Formatting failed error”

If you receive this error, then follow the updated instructions in Part B, Step 1 to fix your HWO database information using the WWA_setup GUI. You also must include “HWO” as your XXX in the GUI for the Issuance, Followup, Clear and Cancel identifier values of your template

***Includes updated information on the SPS as it pertains to following up on Tornado and Severe Thunderstorm Watches**

Directive 10-517 from Office of Services (OS) will become effective on **December 2**. This directive states that the HWO and SPS products created by a site must be segmented. If appropriate to your site, the Sections that follow describe what sites can do to be ready for this change.

If sites use WWA to create their HWO/SPS products, then the outlined procedures in Section 1 can be used. ***Sites will also need to modify their Tornado and Severe Thunderstorm Watch templates, such that the followup SPS will be in a segmented format. Instructions on changing the templates are included in Section 1.**

For sites that use Console Replacement System (CRS) AWIPS Formatters Extended (CAFE) to send SPS/HWO products to CRS, then Section 2 can be done.

It should be noted that Sections 1, and 2 have two parts:

- A. Actions that the site needs to do before December 2 and
- B. Actions that the site needs to do on December 2 to finish the activation.

We suggest that you read the entire document ahead of time and perform what you need to before December 2.

1. The OB2 HWO and SPS WWA templates must become active on December 2.

The following should be done by sites that use WWA to create HWO and SPS products.

Technical Support: If you have any questions on the following, contact Iris Boon at (301) 713-1613 x162

A. Things to do before December 2:

1. For HWO/SPS WWA Products

- a. Obtain the latest version of the present document called **The Activation of OB2 Segmented HWO/SPS WWA Products** from the following web page:

http://www.ops1.nws.noaa.gov/awips_install.htm

- b. Sites that use these templates must take the OB2 HWO and SPS templates and customize them if they haven't already done so. Among the HWO/SPS products are the following "Specific Product Names:"

- 1 Winter Storm Outlook (WWA_ww_outlk.wwaProd),
- 2 Excessive Heat Outlook (WWA_heat_outlook.wwaProd),
- 3 Frost/Freeze Outlook (WWA_frostfrz_outlk.wwaProd),
- 4 Hazardous Weather Outlook (WWA_hazard_outlk.wwaProd),
- 5 High Wind Outlook (WWA_hiwind_outlk.wwaProd),
- 6 Non Hazardous Weather Outlook
(WWA_nonhazard_outlk.wwaProd),
- 7 Special Weather Statement (WWA_specialstmt.wwaProd),
- 8 Wind Chill Outlook (WWA_wndchil_outlk.wwaProd),
- 9 Severe Weather Outlook (WWA_severe_outlook.wwaProd)

Note that as part of a pre-install step for OB2 (see attachment "e" of the **OB2 Installation Procedures**) some sites downloaded and customized these templates and placed them on ds1 under the

/data/local/ob2WWA directory.

- c. After you have customized the templates, as best you can, check/test these templates to ensure they work as expected. Do not activate them before December 2.

2. **For the Tornado and Severe Thunderstorm Watch SLS/SPS product templates**

- a. Obtain the latest version of the present document called **The Activation of OB2 Segmented HWO/SPS WWA Products** from the following web page:

http://www.ops1.nws.noaa.gov/awips_install.htm

- b. Sites that use these templates must take the OB2 Tornado and Severe Thunderstorm Watch (SLS/SPS) templates and make the adjustments in Appendix B. Appendix A contains an original OB2 baseline generic template for comparison. They also may want to customize them if they haven't already done so. Among the Tornado and Severe Thunderstorm Watch (SLS/SPS) products are the following "Generic Product Names:"

- 1 SLS Severe Thunderstorm Watch
(WWA_svrt_wat_sls.preWWA)
- 2 SLS Tornado Watch (WWA_tor_wat_sls.preWWA)

- c. After you have customized the templates, as best you can, check/test these templates to ensure they work as expected. Do not activate them before December 2.

B. Things to do On December 2:

Obtain the latest version of the present document called **The Activation of OB2 Segmented HWO/SPS WWA Products** from the following web page:

http://www.ops1.nws.noaa.gov/awips_install.htm

1. **For HWO/SPS WWA Products**

- a. Place the customized HWO and SPS templates into the data/fxa/customFiles subdirectory.

- b. Re-define the WWA configuration to produce segmented products for HWO/SPS. The procedure below was created from information obtained from Section 2.1 of the **WWA OB2 Users Manual**:

(http://www.nws.noaa.gov/mdl/wwa/new_OB2.htm).

The following needs to be done for each of the “specific product names” listed in “5” below, if appropriate to your site.

1. Open an xterm window on either lx1 or lx2.
2. As the root user, type the following:

su - ifps

3. Source in your environmental variable:

**. /awips/adapt/ifps/localbin/ifps-ccc.env
(where ccc is your AWIPS ID)**

4. Launch the old WWA Setup GUI application:

wwa_setup

5. Double click on the appropriate HWO/SPS hazard box. These can include any of the following “Specific Product Names:”

- A. Winter Storm Outlook (WWA_ww_outlk.wwaProd),
- B. Excessive Heat Outlook
(WWA_heat_outlook.wwaProd),
- C. Frost/Freeze Outlook (WWA_frostfrz_outlk.wwaProd),
- D. Hazardous Weather Outlook
(WWA_hazard_outlk.wwaProd),
- E. High Wind Outlook (WWA_hiwind_outlk.wwaProd),
- F. Non Hazardous Weather Outlook
(WWA_nonhazard_outlk.wwaProd),
- G. Special Weather Statement
(WWA_specialstmt.wwaProd),
- H. Wind Chill Outlook (WWA_wndchil_outlk.wwaProd),
- I. Severe Weather Outlook
(WWA_severe_outlook.wwaProd)

6. In the hazard configuration interface set the following fields:

Segmented Checkbox: **Place a check
here for
segmented.**

Select the box next to segmented to make sure the product type is segmented.

7. Save and exit the *hazard* configuration interface:

Select **Ok** button bottom left on interface

9. Repeat steps “5” through “7” for each hazard listed in “5,” as needed.

10. Exit WWA Setup GUI:

Select the **Exit** button from the bottom center of interface.

11. The activation of the SPS/HWO templates and the changes made above will not take hold until the appropriate localization is run. The needed localization was placed in step 3, below.

2. **For SLS/SPS**

- b. If you have not already done so, obtain the latest version of the present document called **The Activation of OB2 Segmented HWO/SPS WWA Products** from the following web page:

http://www.ops1.nws.noaa.gov/awips_install.htm

- b. Place the customized Tornado and Severe Thunderstorm Watch (SLS/SPS) templates into the data/fxa/customFiles subdirectory.
- c. The activation of the Tornado and Severe Thunderstorm Watch (SLS/SPS) templates and the changes made above will not take hold until the appropriate localization is run. The needed localization was placed in step 3, below.

3. Run a WWA localization on the appropriate LX using the information in Note A.

NOTE A: For sites that still have HP workstations, you will need to run the WWA localization on LX1 and LX2, only. For the sites that replaced the HP WSs with the new linux workstations, the localization will need to be run on all LX workstations.

- a. From LX1, as the root user type the following:

su - fxa

- b. Run wwa localization by typing:

**cd /awips/fxa/data/localization/scripts
./mainScript.csh f -wwa**

- c. Repeat steps “a” and “b” for the appropriate workstations, using Note A above as a guide.
- d. When you have completed running the localizations for all of the appropriate LXs, use the appropriate number of “exit” commands.

4. As appropriate, run WWA and:

- a. Create SPS/HWO products that you just activated in step 3.

Ensure they are segmented.

- a. Create a practice Tornado and Severe Thunderstorm Watch SLS product (i.e., using your just activated template). Then followup this product and issue a SPS to cancel part of the watch. Ensure the SPS is segmented.

2. Sites that use CAFE to send SPS/HWO products to CRS need to obtain the new CAFE formatters

The CAFE formatters used before December 2003 handled SPS/HWO products as if they were non-segmented products. Because SPS/HWO products will be segmented starting December 2, updated CAFE formatters are needed for those sites that use CAFE to send these products to CRS. Such a site will need to obtain updated CAFE formatters, make customized changes, and test them before December 2... then activate them on December 2.

Technical Support: If you have any questions on the following, contact the CRS Help Desk Contact at: 301-713-0191 or
Go to the following CRS Help Desk web page:
<http://weather.gov/ops2/crs/crshelp.html>

A. Things to do before December 2, if applicable:

Review the information on the following web pages and do any instructions that can be safely done ahead of time. This includes obtaining the new formatters, customize them as appropriate to your site, and testing them to ensure they work.

1. Obtain the latest version of the present document called **The Activation of OB2 Segmented HWO/SPS WWA Products** from the following web page:

http://www.ops1.nws.noaa.gov/awips_install.htm

2. Information on which CAFE version to use to support the new format can be obtained by going through the following web page:

<http://weather.gov/ops2/crs/crs.htm>

3. From the web page above, you will want to go to the link to the CAFE formatter. It sends you to the following web page:

<http://weather.gov/ops2/crs/crscafe.html>

4. From the CAFE formatter web page:

- a. Changes to the CAFE formatter scripts are documented in the CAFE "What's New" page. **You need to review this page.** At the appropriate time, the "What's New" link will be updated to include the new versions of the SPS.tar and HWO.tar.

Note that this page will be updated frequently and should be checked often. Sites are encouraged to download and install the newest versions of the CAFE formatter scripts at the appropriate time. The “What’s New page” web page is found at:

<http://weather.gov/ops2/crs/document/cafe.txt>

- b. Read the “CAFE How-To” document for general installation, configuration, testing, and operations help. This page is found at:

<http://weather.gov/ops2/crs/document/CAFE-HowTo.txt>

B. Things to do on December 2:

1. On December 2, activate the new CAFE formatters using the information from the above web pages.

Appendix A - Generic OB2 Baseline Template

/"SLS Severe Thunderstorm Watch"

^{issuance header |
#include "\${CURRENT_CWA}-offtIncl.txt"
ZCZC CCCNNNXXX DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&&

BULLETIN - IMMEDIATE BROADCAST REQUESTED&
AREAL OUTLINE FOR SEVERE THUNDERSTORM WATCH NUMBER \$\$watchNumber!&
#include "\${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}^

!{followup/clear/cancel header |
#include "\${CURRENT_CWA}-offtIncl.txt"
ZCZC \$\$cccValue!SPS\$\$xxxValue! DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&
<AREA |file=wwa_zones | output_field=2 | format=ugc >
< PURGE |ddhhmm |gmt |interval=15>-&&

SPECIAL WEATHER STATEMENT&
#include "\${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}!

^{hazard headline |
SEVERE THUNDERSTORM WATCH NUMBER \$\$watchNumber! IN EFFECT UNTIL
<EXPIRE>.&&
#include "sls_county_list.template"
}^

!{hazard continue |
SEVERE THUNDERSTORM WATCH #\$\$watchNumber! REMAINS IN EFFECT FOR...
<AREA |file=wwa_zones |output_field=1 |format=list
|trail=~[2,counties_type]...&>
}!

!{hazard clear |
SEVERE THUNDERSTORM WATCH #\$\$watchNumber! HAS BEEN REMOVED FROM

THE FOLLOWING AREAS...

<AREA |file=wwa_zones |output_field=1 |format=list |trail=...&>
}!

!{hazard cancel |
SEVERE THUNDERSTORM WATCH #\$\$watchNumber! THAT WAS IN EFFECT FOR...
<AREA |file=wwa_zones |output_field=1 |format=list
|trail=~[2,counties_type]...> HAS BEEN CANCELLED.
}!

!{hazard expansion |
SEVERE THUNDERSTORM WATCH #\$\$watchNumber! HAS BEEN EXPANDED TO
INCLUDE THE FOLLOWING AREAS...
<AREA |file=wwa_zones |output_field=1 |format=list |trail=...&>
}!

!{hazard extension |
SEVERE THUNDERSTORM WATCH #\$\$watchNumber! VALID FOR THE AREAS OF...
<AREA |file=wwa_zones |output_field=1 |format=list |trail=...> HAS BEEN EXTENDED
UNTIL <EXPIRE | plain>
}!

Appendix B - Modified OB2 Template

/"SLS Severe Thunderstorm Watch"

^{issuance header |
#include "\${CURRENT_CWA}-offtIncl.txt"
ZCZC CCCNNNXXX DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&&

BULLETIN - IMMEDIATE BROADCAST REQUESTED&
AREAL OUTLINE FOR SEVERE THUNDERSTORM WATCH NUMBER \$\$watchNumber!&
#include "\${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}^

!{followup/clear/cancel header |
#include "\${CURRENT_CWA}-offtIncl.txt"
ZCZC \$\$cccValue!SPS\$\$xxxValue! DEF&
TTAA00 KEAX <NOW | ddhhmm | gmt>&&
//<AREA |file=wwa_zones | output_field=2 | format=ugc >
//< PURGE |ddhhmm |gmt |interval=15>-&&

**Note: Comment out the Area
Substitution above the MND
Header**

SPECIAL WEATHER STATEMENT&
#include "\${CURRENT_CWA}-headerIncl.txt"
<NOW | header | local >&
< PURGE |ddhhmm |gmt |last_table |trail=-& |var=expireTime >
}!

^{hazard headline |
SEVERE THUNDERSTORM WATCH NUMBER \$\$watchNumber! IN EFFECT UNTIL <EXPIRE>.&&
#include "sls_county_list.template"
}^

!{hazard continue |
<AREA |file=wwa_zones | area=wwa_counties | output_field=2 | format=ugc >
<PURGE |ddhhmm |gmt |interval=15>-&

<AREA | file = wwa_zones | format = simple | area=wwa_counties
| sort_by =[1] | item_format=[st]- | trail=& >

<AREA |file=wwa_warn_city |area=wwa_counties | sort_by=[1]
|output_field=1 |include_field=2 |include_text=1
|lead=INCLUDING THE CITIES OF... | trail=& >

<NOW | header | local >&&

**Note: Add Area Substitution
for zone codes, county
listings and cities below the
each hazard headline**

...SEVERE THUNDERSTORM WATCH #\$\$\$watchNumber! REMAINS IN EFFECT...

```
//<AREA |file=wwa_zones |output_field=1 |format=list  
//   |trail=~[2,counties_type]...&>  
}!
```

**Note: Add ellipses and
remove additional text to
make wording into headline.
Comment out Area
Substitution (Sub.)**

!{hazard clear |

<AREA |file=wwa_zones | area=wwa_counties | output_field=2 | format=ugc >

<PURGE |ddhhmm |gmt |interval=15>-&

<AREA | file = wwa_zones | format = simple | area=wwa_counties
| sort_by =[1] | item_format=[st]- | trail=& >

<AREA |file=wwa_warn_city |area=wwa_counties | sort_by=[1]
|output_field=1 |include_field=2 |include_text=1
|lead=INCLUDING THE CITIES OF... | trail=& >

<NOW | header | local >&&

...SEVERE THUNDERSTORM WATCH #\$\$\$watchNumber! IS NO LONGER IN EFFECT...

```
//<AREA |file=wwa_zones |output_field=1 |format=list |trail=...&>  
}!
```

**Note: Add Area Substitution
for zone codes, county
listings and cities below the
each hazard headline.**

**Note: Add ellipses and
remove additional text to
make wording into headline.
Comment out Area Sub.**

!{hazard cancel |

<AREA |file=wwa_zones | area=wwa_counties | output_field=2 | format=ugc >

<PURGE |ddhhmm |gmt |interval=15>-&

<AREA | file = wwa_zones | format = simple | area=wwa_counties
| sort_by =[1] | item_format=[st]- | trail=& >

<AREA |file=wwa_warn_city |area=wwa_counties | sort_by=[1]
|output_field=1 |include_field=2 |include_text=1
|lead=INCLUDING THE CITIES OF... | trail=& >

<NOW | header | local >&&

...SEVERE THUNDERSTORM WATCH #\$\$\$watchNumber! HAS BEEN CANCELLED...

```
//<AREA |file=wwa_zones |output_field=1 |format=list  
//   |trail=~[2,counties_type]...> HAS BEEN CANCELLED.  
}!
```

**Note: Add Area Substitution
for zone codes, county
listings and cities below the
each hazard headline**

**Note: Add ellipses and
remove additional text to
make wording into headline.
Comment out Area Sub.**

!{hazard expansion |

<AREA |file=wwa_zones | area=wwa_counties | output_field=2 | format=ugc >

<PURGE |ddhhmm |gmt |interval=15>-&

<AREA | file = wwa_zones | format = simple | area=wwa_counties
| sort_by =[1] | item_format=[st]- | trail=& >

<AREA |file=wwa_warn_city |area=wwa_counties | sort_by=[1]
|output_field=1 |include_field=2 |include_text=1
|lead=INCLUDING THE CITIES OF... | trail=& >

<NOW | header | local >&&

...SEVERE THUNDERSTORM WATCH #\$\$\$watchNumber! HAS BEEN EXPANDED...

**Note: Add Area Substitution
for zone codes, county
listings and cities below the
each hazard headline**

```
//<AREA |file=wwa_zones |output_field=1 |format=list |trail=...&>
}!
```

**Note: Add ellipses and
remove additional text to
make wording into headline.
Comment out Area Sub.**

```
!{hazard extension |
```

```
<AREA |file=wwa_zones | area=wwa_counties | output_field=2 | format=ugc >
```

```
<PURGE |ddhhmm |gmt |interval=15>-&
```

**Note: Add Area Substitution
for zone codes, county
listings and cities below the
each hazard headline**

```
<AREA | file = wwa_zones | format = simple | area=wwa_counties  
| sort_by =[1] | item_format=[st]- | trail=& >
```

```
<AREA |file=wwa_warn_city |area=wwa_counties | sort_by=[1]  
|output_field=1 |include_field=2 |include_text=1  
|lead=INCLUDING THE CITIES OF... | trail=& >
```

```
<NOW | header | local >&&
```

```
...SEVERE THUNDERSTORM WATCH #$$watchNumber! HAS BEEN EXTENDED UNTIL <EXPIRE  
| plain>...
```

```
//<AREA |file=wwa_zones |output_field=1 |format=list |trail=...> HAS BEEN EXTENDED UNTIL
```

```
<EXPIRE | plain>
```

```
}!
```

**Note: Add ellipses and
remove additional text to
make wording into headline.
Comment out Area Sub.**

*** Note that the Area Substitution Line was removed from under the MND
Header and is now located under each hazard headline.**